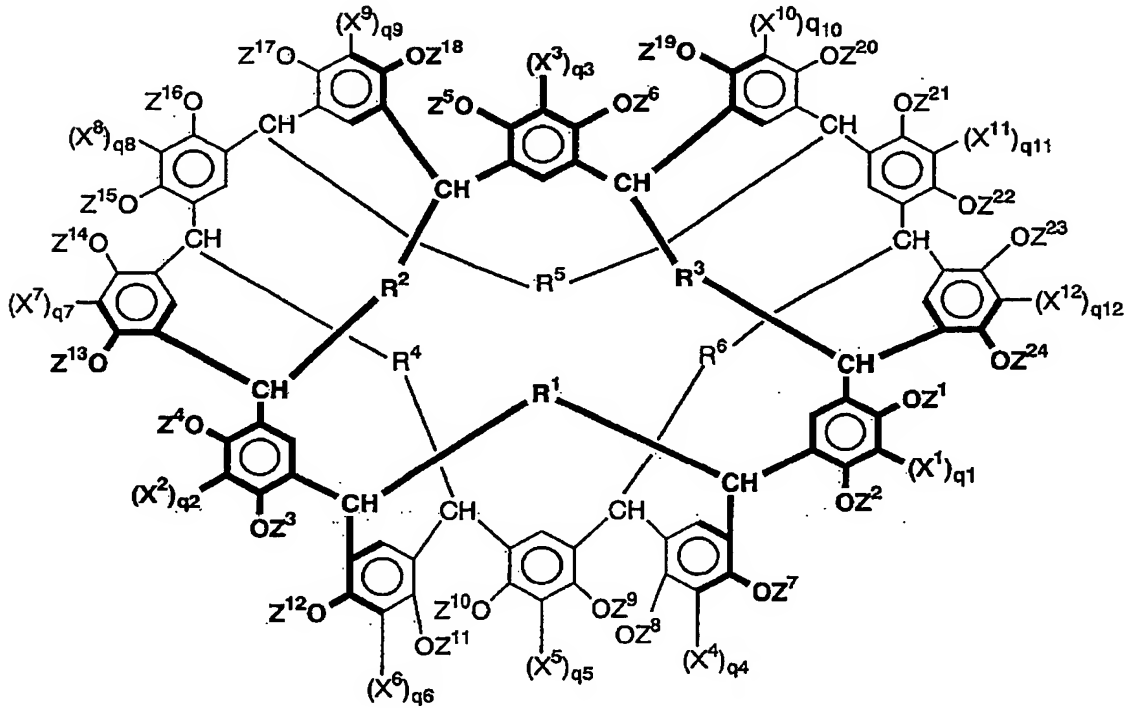
IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A calixarene compound shown by following formula (1):

~~[Formula 1]~~



(1)

wherein R^1 to R^6 individually represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; X^1 to X^{12} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; Z^1 to Z^{24} individually represent a hydrogen atom, a group having a

polymerizable functional group, a group having an alkali-soluble group, or a substituted alkyl group having an alkyl chain with a 1 to 8 carbon atom content, or two adjacent Zs in combination represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; q^1 to q^{12} individually represent an integer of 0 or 1.

Claim 2 (Original): The calixarene compound according to claim 1 , wherein X^1 to X^{12} in the formula (1) are methyl groups.

Claim 3 (Original): The calixarene compound according to claim 1 , wherein q^1 to q^{12} in the formula (1) are 0.

Claim 4 (Currently Amended): The calixarene compound according to ~~any one of claims~~ claim 1 ~~to 3~~, wherein R^1 to R^6 are individually an alkylene group having 3, 5, 7, or 8 carbon atoms.

Claim 5 (Currently Amended): The calixarene compound according to ~~any one of claims~~ claim 1 ~~to 4~~, wherein all of the Z^1 to Z^{24} groups in the formula (1) are hydrogen atoms.

Claim 6 (Currently Amended): The calixarene compound according to ~~any one of claims~~ claim 1 ~~to 4~~, wherein at least one of the Z^1 to Z^{24} groups in the formula (1) is a group other than hydrogen atom.

Claim 7 (Original): The calixarene compound according to claim 6, wherein at least one of the Z^1 to Z^{24} groups in the formula (1) has a polymerizable functional group.

Claim 8 (Original): The calixarene compound according to claim 7, wherein the polymerizable functional group is a polymerizable unsaturated group and/or a cyclic ether group.

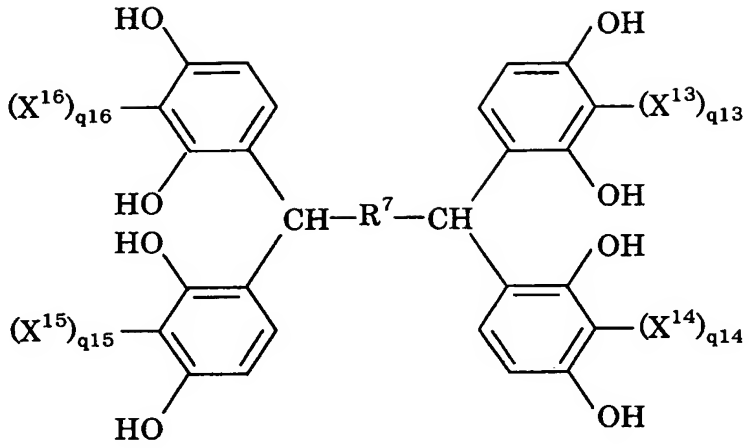
Claim 9 (Currently Amended): The calixarene compound according to ~~any one of claims~~ claim 6 ~~to 8~~, wherein at least one of the Z^1 to Z^{24} groups in the formula (1) has an alkali-soluble group.

Claim 10 (Original): The calixarene derivative according to claim 9, wherein the alkali-soluble group is at least one group selected from the group consisting of a carboxyl group, amino group, sulfonamide group, sulfonic acid group, and phosphoric acid group.

Claim 11 (Currently Amended): The calixarene derivative according to ~~any one of claims~~ claim 6 ~~to 10~~, wherein at least one of the groups among Z^1 to Z^{24} in the formula (1) has both a polymerizable functional group and an alkali-soluble group.

Claim 12 (Currently Amended): At least one intermediate of a calixarene compound selected from the group shown by the following formulas (2), to (8):

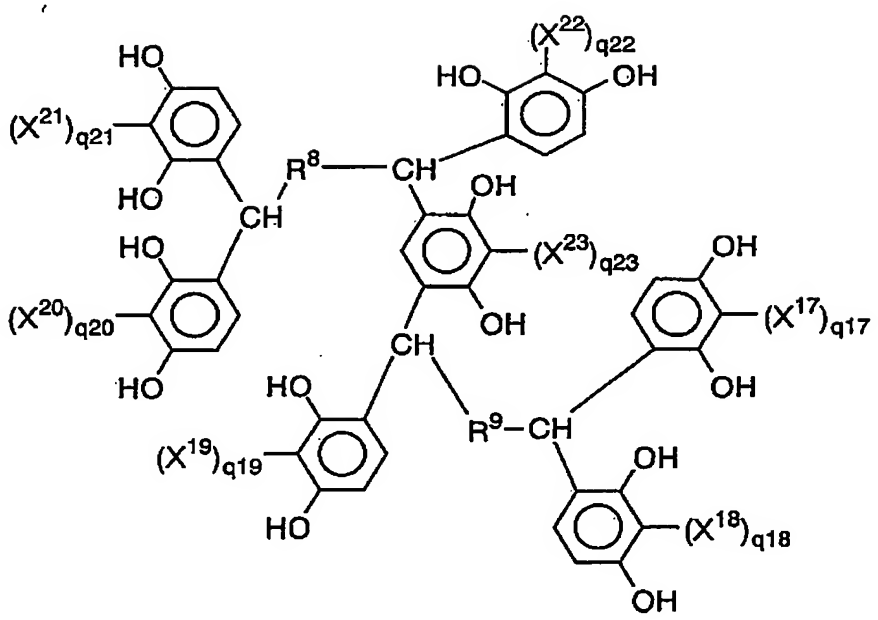
~~[Formula 2]~~



(2)

wherein R^7 represents a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; X^{13} to X^{16} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; and q^{13} to q^{16} individually represent an integer of 0 or 1,

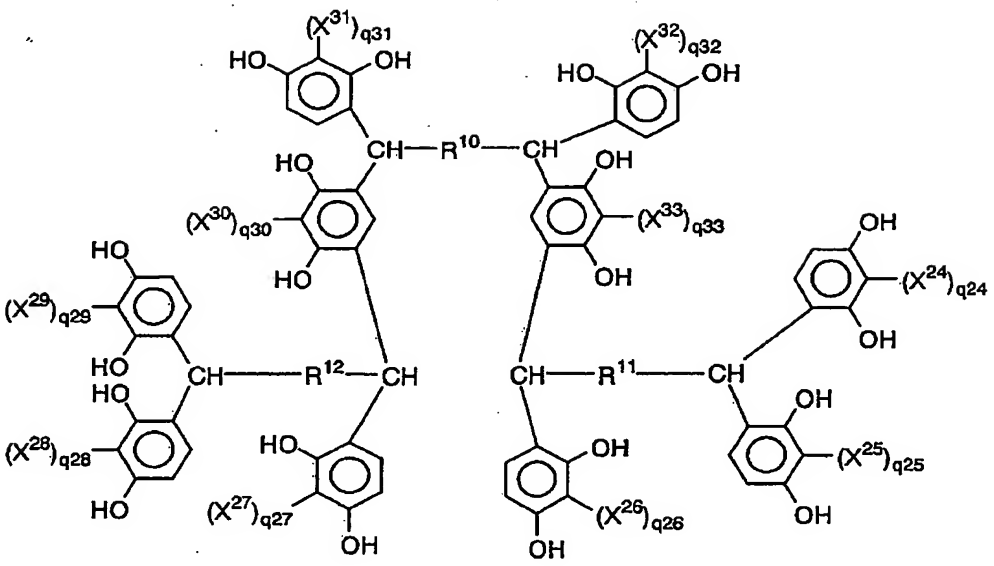
~~[Formula 3]~~



(3)

wherein R^8 and R^9 individually represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; X^{17} to X^{23} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; and q^{17} to q^{23} individually represent an integer of 0 or 1,

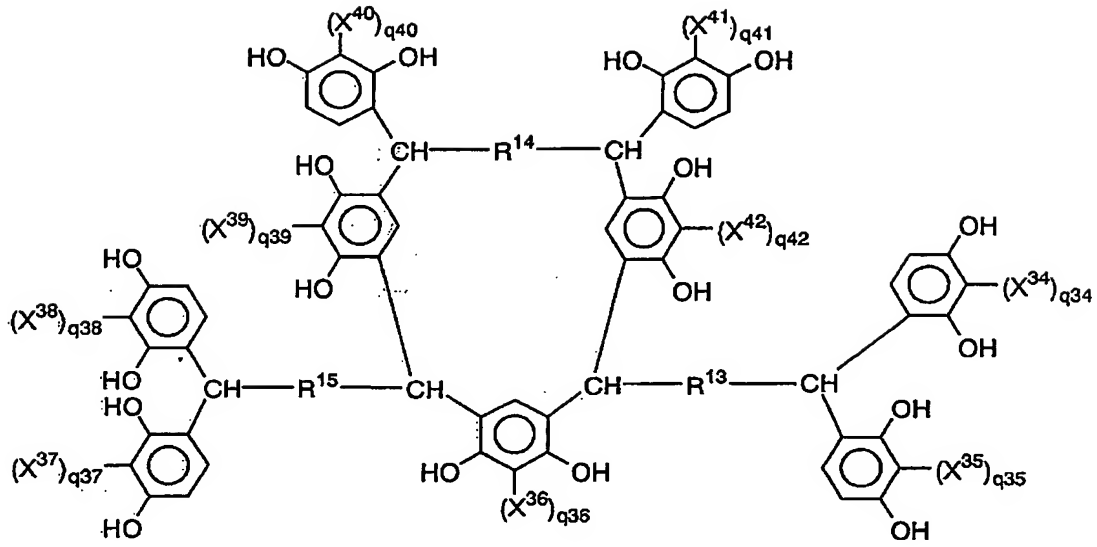
~~[Formula 4]~~



(4)

wherein R^{10} to R^{12} individually represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; X^{24} to X^{33} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; q^{24} to q^{33} individually represent an integer of 0 or 1,

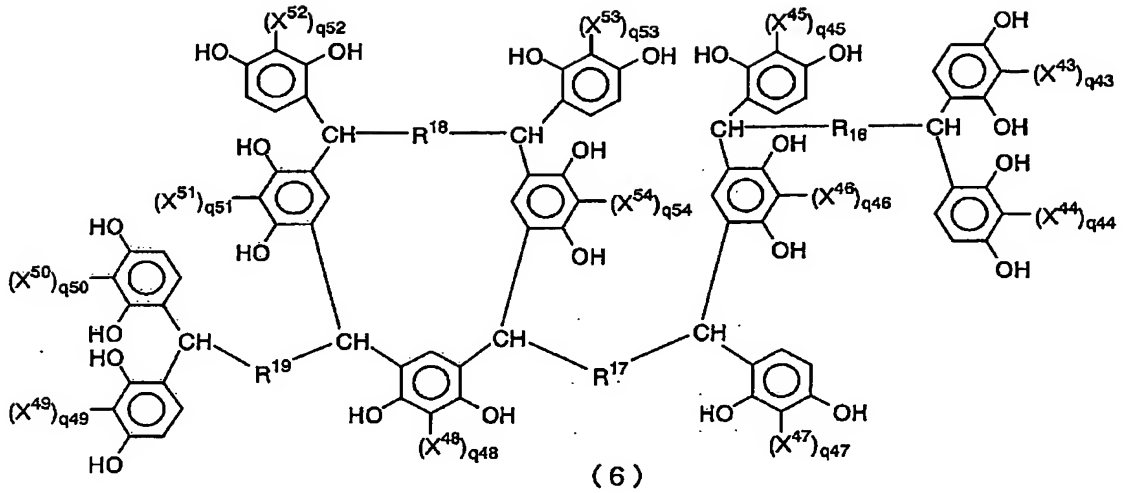
~~[Formula 5]~~



(5)

wherein R^{13} to R^{15} individually represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; X^{34} to X^{42} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; and q^{34} to q^{42} individually represent an integer of 0 or 1,

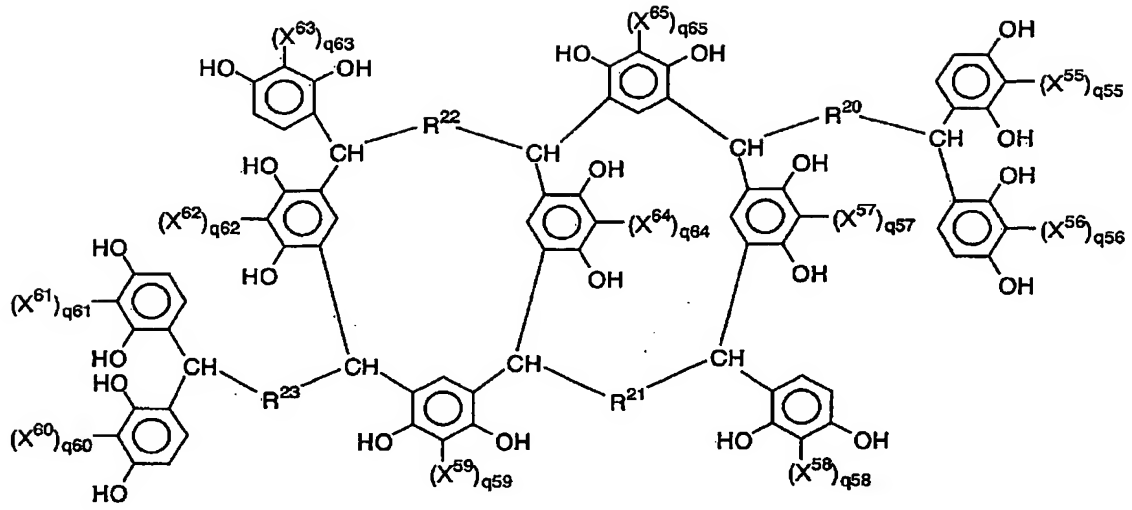
~~[Formula 6]~~



(6)

wherein R^{16} to R^{19} represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; X^{43} to X^{54} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; and q^{43} to q^{54} individually represent an integer of 0 or 1,

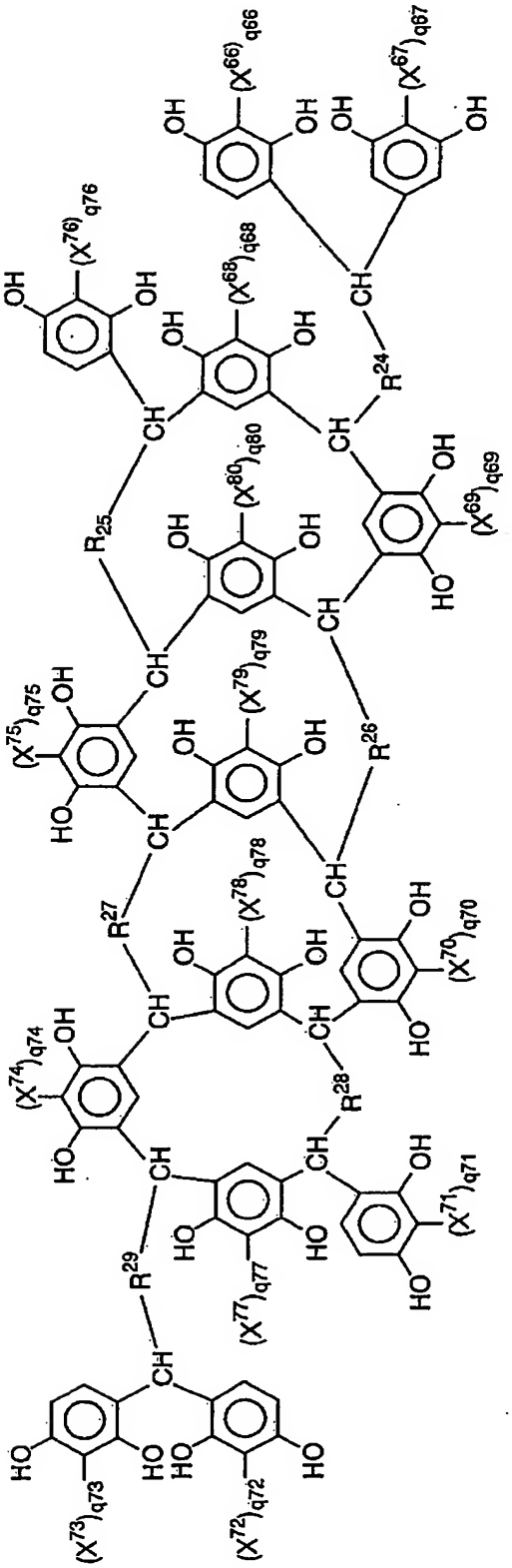
~~[Formula 7]~~



(7)

wherein R^{20} to R^{23} represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; X^{55} to X^{65} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; and q^{55} to q^{65} individually represent an integer of 0 or 1,

~~[Formula 8]~~



(8)

wherein R^{24} to R^{29} represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms;; X^{66} to X^{80} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; and q^{66} to q^{80} individually represent an integer of 0 or 1.

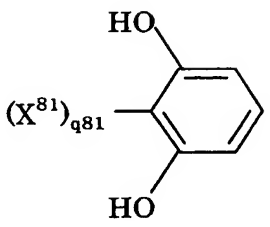
Claim 13 (Original): The intermediate of a calixarene compound according to claim 12, wherein X^{13} to X^{80} in the formulas (2) to (8) are methyl groups.

Claim 14 (Original): The intermediate of a calixarene compound according to claim 12, wherein q^{13} to q^{80} in the formulas (2) to (8) are 0.

Claim 15 (Currently Amended): The intermediate of a calixarene compound according to ~~any one of claims~~ claim 12 ~~to 14~~, wherein R^7 to R^{29} in the formulas (2) to (8) are individually an alkylene group having 3, 5, 7, or 8 carbon atoms.

Claim 16 (Currently Amended): A method for manufacturing a calixarene compound comprising condensing at least one compound shown by the formula (9) and at least one compound shown by the formula (10):

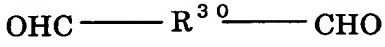
~~[Formula 9]~~



(9)

wherein X^{81} represents a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; and q^{81} is an integer of 0 or 1,

~~[Formula 10]~~



(10)

wherein R^{30} represents a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms.

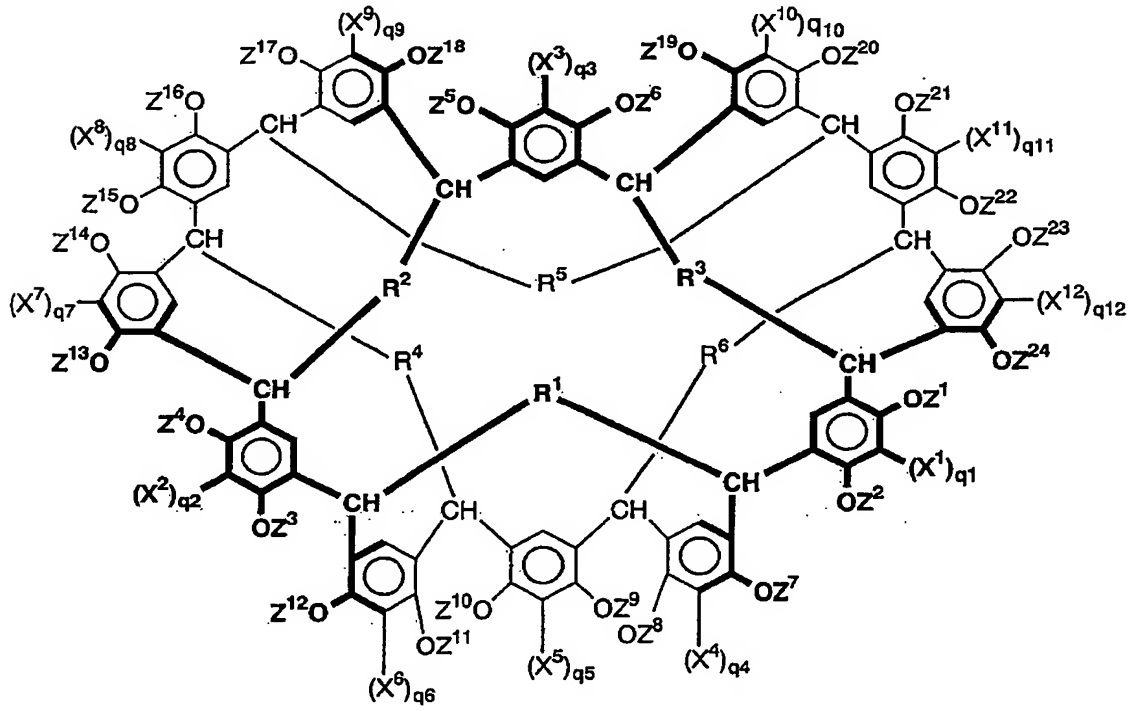
Claim 17 (Original): The method according to claim 16, wherein X^{81} in the formula (9) is a methyl group.

Claim 18 (Original): The method according to claim 16, wherein q^{81} in the formula (9) is 0.

Claim 19 (Currently Amended): The method according to ~~any one of claims~~ claim 16 ~~to 18~~, wherein R^{30} in the formula (10) is an alkylene group having 3, 5, 7, or 8 carbon atoms.

Claim 20 (Currently Amended): A composition comprising a calixarene compound of ~~the formula (1)~~ claim 1 and a solvent which ~~can~~ dissolves the calixarene compound of the formula (1):

~~[Formula 11]~~



(1)

wherein R^1 to R^6 individually represent a substituted or unsubstituted alkylene group having 1-8 carbon atoms; X^1 to X^{12} individually represent a substituted or unsubstituted alkyl group having 1 to 10 carbon atoms, a substituted or unsubstituted alkenyl group having 2 to 10 carbon atoms, a substituted or unsubstituted alkynyl group having 2 to 10 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 10 carbon atoms, a substituted or unsubstituted alkoxyl group having 1 to 10 carbon atoms, or a substituted or unsubstituted phenoxy group; Z^1 to Z^{24} individually represent a hydrogen atom, a group having a

polymerizable functional group, a group having an alkali-soluble group, or a substituted alkyl group having an alkyl chain with a 1 to 8 carbon atom content, or two adjacent Zs in combination represent a substituted or unsubstituted alkylene group having 1 to 8 carbon atoms; q^1 to q^{12} individually represent an integer of 0 or 1.

Claim 21 (Original): The composition according to claim 20, wherein the calixarene compound has a polymerizable functional group for at least one of the Z^1 to Z^{24} groups in the formula (1) and the composition further comprises a polymerization initiator.

Claim 22 (Original): The composition according to claim 20, wherein the calixarene compound has an alkali-soluble group for at least one of the Z^1 to Z^{24} groups in the formula (1).